PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

FINAL DUE DATE MAN JOSEPH ROOM 加阿 SEP 14 A 11: 23 To: NOTIFICATION OF TRANSMITTAL OF FETHERSTONHAUGH & CO. THE INTERNATIONAL SEARCH REPORT AND Attn. Robinson, C.J. WESCOPE WRITTEN OPINION OF THE INTERNATIONAL Box 11560, Vancouver Centre SEARCHING AUTHORITY, OR THE DECLARATION 650 West Georgia Street, Suite 2200 Vancouver, British Columbia V6B 4N8 CANADA (PCT Rule 44.1) Date of mailing (day/month/year) 10/09/2004 Applicant's or agent's file reference FOR FURTHER ACTION 49324-293 See paragraphs 1 and 4 below International application No. International filing date (day/month/year) PCT/CA2004/000506 02/04/2004 Applicant CELATOR TECHNOLOGIES INC.

The applicant is hereby notified that the international search report and the written opinion of the International Searching

	Authority have been established and are transmitted nerewith.
	Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the International Application (see Rule 46):
	When? The time limit for filing such amendments is normally 2 months from the date of transmittal of the International Search Report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 740.14.35
	For more detailed instructions, see the notes on the accompanying sheet.
2.	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3.	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
	the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.

4. Reminders

Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and	mailing	address	of the	Internationa	al Searchin	g Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Eva Bohácová

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendents of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 - "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]: "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

Notes to Form PCT/ISA/220 (second sheet) (January 1994)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220
49324-293	ACTION	·	as, where applicable, item 5 below.
International application No.	International filing date (day/month	vyear)	(Earliest) Priority Date (day/month/year)
PCT/CA2004/000506	02/04/2004		02/04/2003
Applicant			
CELATOR TECHNOLOGIES INC.			
This International Search Report has been according to Article 18. A copy is being tra			ority and is transmitted to the applicant
This International Search Report consists	of a total of she	eets.	
	a copy of each prior art document c	ited in this	report.
Basis of the report			
With regard to the language, the language in which it was filed, unline	international search was carried out ess otherwise indicated under this it	on the bas em.	sis of the international application in the
The international this Authority (Ru		of a transla	ation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence	disclosed	in the international application, see Box No. 1.
2. X Certain claims were fou	nd unsearchable (See Box II).		
3. Unity of invention is lac	king (see Box III).		
With regard to the title,			
the text is approved as su	ubmitted by the applicant.		
	shed by this Authority to read as follo	ows:	
NANO-SIZED VEHICLES	•	EUTIC A	GENT AND AT LEAST ONE DRUG DRUG RESISTANCE
5. With regard to the abstract,			
	ubmitted by the applicant.		
		this Authori	ty as it appears in Box No. IV. The applicant
may, within one month fr	om the date of mailing of this interna	itional sear	ch report, submit comments to this Authority.
6. With regards to the drawings,			•
a. the figure of the drawings to be	published with the abstract is Figure	No1_	
X as suggested by	the applicant.		
as selected by th	is Authority, because the applicant f	ailed to sug	ggest a figure.
as selected by th	is Authority, because this figure bett	ter characte	erizes the invention.
b. none of the figures is to l	pe published with the abstract.		

INTER JIONAL SEARCH REPORT

International Application No PCT/CA2004/000506

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K31/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \quad 7 \qquad A61K$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE

Category Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
SINGH M ET AL: "Stealth monensin liposomes as a potentiator of adriamycin in cancer treatment" JOURNAL OF CONTROLLED RELEASE, ELSEVIER SCIENCE PUBLISHERS B.V., AMSTERDAM, NL, vol. 59, no. 1, 1 May 1999 (1999-05-01), pages 43-53, XP004166214 ISSN: 0168-3659 the whole document abstract page 44, column 1, paragraphs 2,3 page 52, column 1, paragraph 2; table 1	1-41

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed	 *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
30 August 2004	10/09/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt,	Authorized officer Luangkhot, N
Fax: (+31-70) 340-3016	Luangknot, H

Form PCT/ISA/210 (second sheet) (January 2004)

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INTER IONAL SEARCH REPORT

International Application No
PCT/CA2004/000506

0.10	AND DOCUMENTS CONSIDERED TO BE DELEVANT	PCT/CA2004/000506
Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KRISHNA R ET AL: "Doxorubicin encapsulated in sterically stabilized liposomes exhibits renal and biliary clearance properties that are independent of valspodar (PSC 833) under conditions that significantly inhibit nonencapsulated drug excretion." CLINICAL CANCER RESEARCH: AN OFFICIAL JOURNAL OF THE AMERICAN ASSOCIATION FOR CANCER RESEARCH. OCT 1999, vol. 5, no. 10, October 1999 (1999-10), pages 2939-2947, XP002294195 ISSN: 1078-0432 the whole document abstract	1-41
Y	WO 98/50018 A (LIU ZHI; WU XIAO YU (CA)) 12 November 1998 (1998-11-12) cited in the application the whole document claims page 2, line 23 - page 3, line 21	1-41
Υ	CH 681 780 A (INST NAT SANTE RECH MED; PATRINOVE) 28 May 1993 (1993-05-28) the whole document claims column 2, lines 7-44 examples	1-41
Υ .	LO ELKA H K ET AL: "Circumvention of multidrug resistance and reduction of cardiotoxicity of doxorubicin in vivo by coupling it with low density lipoprotein." LIFE SCIENCES. 27 DEC 2002, vol. 72, no. 6, 27 December 2002 (2002-12-27), pages 677-687, XP002294196 ISSN: 0024-3205 the whole document abstract	1-41
Y	CUVIER C ET AL: "Doxorubicin-loaded nanospheres bypass tumor cell multidrug resistance." BIOCHEMICAL PHARMACOLOGY. 4 AUG 1992, vol. 44, no. 3, 4 August 1992 (1992-08-04), pages 509-517, XP002294197 ISSN: 0006-2952 the whole document abstract	1-41

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INTER JONAL SEARCH REPORT

International Application No
PCT/CA2004/000506

		PC1/CA2004/000506
C.(Continu Category *	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	and appropriate of the second	The value of call 100.
Υ	MICHIELI M ET AL: "Liposome-encapsulated daunorubicin for PGP-related multidrug resistance." BRITISH JOURNAL OF HAEMATOLOGY. JUL 1999, vol. 106, no. 1, July 1999 (1999-07), pages 92-99, XP002294198 ISSN: 0007-1048 the whole document abstract	1-41
Y	KABANOV A V ET AL: "PLURONIC BLOCK COPOLYMERS FOR OVERCOMING DRUG RESISTANCE IN CANCER" ADVANCED DRUG DELIVERY REVIEWS, AMSTERDAM, NL, vol. 54, no. 5, 13 September 2002 (2002-09-13), pages 759-779, XP001121445 ISSN: 0169-409X the whole document abstract	1-41
Υ	BRIGGER I ET AL: "Nanoparticles in cancer therapy and diagnosis" ADVANCED DRUG DELIVERY REVIEWS, AMSTERDAM, NL, vol. 54, no. 5, 2002, pages 631-651, XP002969695 ISSN: 0169-409X the whole document abstract	1-41
Y	SINGH M ET AL: "Stealth monensin immunoliposomes as potentiator of immunotoxins in vitro" EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS 2001 NETHERLANDS, vol. 52, no. 1, 2001, pages 13-20, XP002294199 ISSN: 0939-6411 the whole document abstract	1-41
Y	VAAGE J ET AL: "Prophylaxis and therapy of mouse mammary carcinomas with doxorubicin and vincristine encapsulated in sterically stabilised liposomes" EUROPEAN JOURNAL OF CANCER PART A: GENERAL TOPICS 1995 UNITED KINGDOM, vol. 31, no. 3, 1995, pages 367-372, XP002294200 ISSN: 0959-8049 the whole document abstract	1-41
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INTER STONAL SEARCH REPORT

International Application No
PCT/CA2004/000506

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/CA2002	
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
Y	WEBB M S ET AL: "The cationic lipid stearylamine reduces the permeability of the cationic drugs verapamil and prochlorperazine to lipid bilayers: Implications for drug delivery" BIOCHIMICA ET BIOPHYSICA ACTA - BIOMEMBRANES 1995 NETHERLANDS, vol. 1238, no. 2, 1995, pages 147-155, XP002294201 ISSN: 0005-2736 the whole document abstract		1-41
Υ	US 5 648 090 A (RAFAELOFF RAFAEL ET AL) 15 July 1997 (1997-07-15) the whole document abstract		1-41
X	SADASIVAN R ET AL: "REVERSAL OF MULTIDRUG RESISTANCE IN HL-60 CELLS BY VERAPAMIL AND LIPOSOME-ENCAPSULATED DOXORUBICIN" CANCER LETTERS, vol. 57, no. 2, 1991, pages 165-172, XP009035800 ISSN: 0304-3835 the whole document abstract		1-41
			, ·

INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/000506

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Although claims 27-29,34-41 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged
effects of the compound/composition. 2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: .
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTER JONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/CA2004/000506

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 9850018	Α	12-11-1998	AU	7201998 A	27-11-1998
			CA	2288876 A1	12-11-1998
			WO	9850018 A1	12-11-1998
CH 681780	Α	28-05-1993	СН	681780 A5	28-05-1993
US 5648090	A	15-07-1997	US	5424073 A	13-06-1995
			AT	194767 T	15-08-2000
			AU	3922193 A	21-10-1993
			CA	2132711 A1	30-09-1993
		•	DE	69329073 D1	24-08-2000
			DE	69329073 T2	18-01-2001
			DK	706373 T3	18-09-2000
	•		EP	0706373 A1	17-04-1996
			ES	2148223 T3	16-10-2000
			GR	3034024 T3	30-11-2000
			PT	706373 T	30-11-2000
			WO	9318751 A1	30-09-1993